IIMT
COLLEGE OF PHARMACY
Greater Noida
— Aim For Excellence —

NEWSLETTER | SESSION 2025-26

भेषजा

OCTOBER-DECEMBER

Exclusively for the IIMT Community

Managing Director's Message

Dr. Mayank Aggarwal
Managing Director

Dear Readers,
Warm greetings to everyone!
It is with great pride and joy that I congratulate Prof. (Dr.) Nakul Gupta and the esteemed faculty for their visionary leadership in bringing forth the Pharmacy Newsletter, Bheshaja. This initiative stands as a testament to IIMT College of Pharmacy's unwavering commitment to fostering knowledge, research, and innovation in the dynamic field of pharmacy.

Our Research & Development department continues to set benchmarks by collaborating with prestigious national and international institutions. These partnerships drive advancements in pharmaceutical research, drug discovery, and healthcare innovations, all while enriching the academic journey of our students. Dr. Mayank Aggarwal Managing Director IIMT Group of Colleges, Greater Noida, and U.P. Equally commendable is the role of our Training & Placement Cell, which ensures students gain valuable industry exposure through internships, specialized training and robust placement opportunities. This equips them for successful careers in pharmaceutical companies, hospitals, and research institutions, reflecting our dedication to holistic professional development. At IIMT College of Pharmacy, we strive to create a vibrant environment that nurtures excellence in education, groundbreaking research, and career advancement. The Bheshaja newsletter embodies our shared vision to remain at the forefront of this ever-evolving field. I am confident that this edition will inspire and inform, sparking ideas and igniting curiosity. My heartfelt thanks go out to all contributors for their hard work and dedication. I eagerly look forward to your valuable feedback, which will help us shape even better editions in the future.

Best Regards
Dr. Mayank Aggarwal
Managing Director
IIMT Group of Colleges,Greater Noida, U.P

Director's Message

Prof. (Dr.) Nakul Gupta
Director

Dear Readers,

Greetings to All! Welcome to the latest edition of the IIMT College of Pharmacy newsletter - BHESHAJA. I am excited to share the latest News, Research, and Developments from our college to the wider pharmacy community. Pharmacy is a dynamic and ever-evolving field, and we must stay up-to-date with the latest advancements and trends.

This newsletter provides a platform for us to share our insights and knowledge, as well as with our colleagues and peers to the wider pharmacy community. Prof. (Dr.) Nakul Gupta Professor & Director Editor-in-Chief In this edition, we have articles covering a range of topics, from the latest research on drug interactions to innovative pharmacy services and initiatives aimed at improving patient outcomes. We also feature interviews with leading pharmacy professionals, sharing their perspectives on the current state of the industry and future directions. I hope that this newsletter serves as a valuable resource for you and inspires you to continue learning and growing in your pharmacy practice. As always, we welcome your feedback and contributions to the future editions. Thank you for your immense support and dedication to the pharmacy profession.

Sincerely,
Prof. (Dr.) Nakul Gupta
Editor-in-Chief, BHESHAJA
Director
IIMT College of Pharmacy
Greater Noida. U.P

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From Editor's Desk

The editorial committee feels proud in releasing the quarterly Newsletter of IIMT College of Pharmacy, Greater Noida. This college newsletter covers information on academics and the details of Activities, Research, and Pharmacy updates. The "BHESHAJA" newsletter will provide ample knowledge to both the students and faculty. This will help them to bring up their talents and contribute significantly to the profession. For any query, suggestion, feedback, or submission of articles, please feel free to contact our team. We would like to hear from you to enhance the quality of the newsletter and to serve you better.

Happy Reading!

Mr. Vishnu Prabhakar
Managing Editor

Mr. Vishnu Prabhakar
Assistant Professor,
IIMT College of Pharmacy, Greater Noida, U.P

Ms. Anupama Katoch
Content Editor

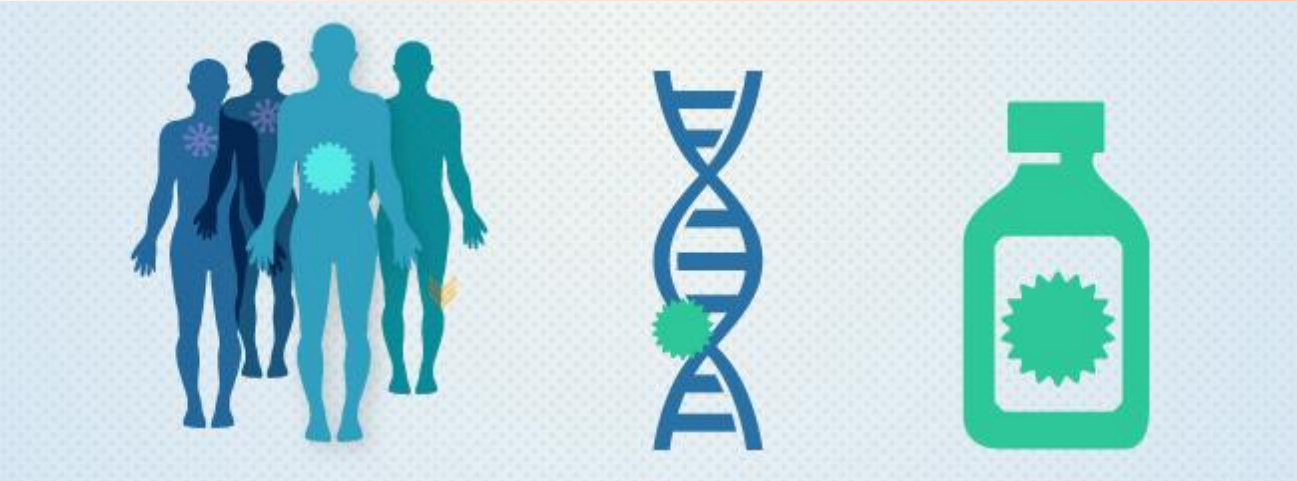
It gives me great pleasure to present this edition of BHESHAJA, the quarterly newsletter of IIMT College of Pharmacy. This issue reflects our collective efforts to share insights, achievements, and innovations shaping the world of pharmacy. We hope it inspires readers to explore new ideas, stay informed, and continue contributing to academic and professional excellence.

Happy Reading!

Ms. Anupama Katoch
Assistant Professor,
IIMT College of Pharmacy, Greater Noida, U.P.

Pharma News

PRECISION MEDICINE AND PHARMACOGENETICS



Precision medicine is like giving each person their own special medicine plan based on their unique body details, such as genes, lifestyle, and environment. Instead of one-size-fits-all drugs, doctors use tests to pick treatments that work best for you and cause fewer side effects. Pharmacogenetics is a key part of this it studies how your genes affect how drugs work in your body, like how fast you break them down or if they might harm you. In simple terms, imagine genes as instructions in your cells that can make you process medicines differently. For example, some people have gene variations that make blood thinners like warfarin too strong, raising bleeding risks. Tests spot these variations quickly, so doctors adjust doses right away, cutting problems by up to 30%. This is now common in cancer care, where gene tests match drugs like PARP inhibitors to specific mutations, helping tumors shrink faster. By 2025, tools like AI and fast DNA sequencing make this easy and cheap. AI scans your genes in hours to suggest the perfect drug, while gene therapies fix faulty genes directly for rare diseases. Everyone can benefit from kids with epilepsy getting safer seizure meds to heart patients avoiding useless pills. Challenges remain, like keeping gene data private and making tests available everywhere. But with wearables tracking your health in real time, future medicine will change doses as needed, making treatments safer and smarter for all.

Precision medicine and pharmacogenetics use your unique genes to create custom drug plans that work better and safer. Recent studies on hypertension, a key focus in your research, show how gene tests predict who responds best to blood pressure drugs like ACE inhibitors or beta-blockers. Real-world stats: Pharmacogenetic dosing for warfarin cuts bleeding by 30%; in cancer or epilepsy, it boosts survival. AI now crunches this data fast, making tests cheap and routine. For hypertension research, polygenic scores from SLC or NOS3 genes predict heart risks better than age alone.

Samreen Safi
B.Pharm 2nd year

Students Corner

My first year as a B. Pharma student at IIMT Group of Colleges was packed with learning and exciting experiences. Supportive faculty and well-equipped labs made studies practical and fun. Events boosted my confidence, while new friends created lasting memories. Overall, it built a strong foundation amid growth and challenges.

Prarthana Jha
B.Pharm 2nd year

First year at IIMT was transformative caring mentors, advanced labs, and vibrant activities. Overcame shyness through events and made awesome friends. Ready for more pharmacy adventures. IIMT's supportive environment helped me tackle first-year challenges easily. Well-equipped labs for practicals, plus events that sharpened my skills.

Kumari Sakshi
B.Pharm 2nd year

Supportive faculty pushed us toward research and innovation, making studies feel real and exciting beyond just books. Practical sessions built my skills, while their guidance boosted my confidence and professional mindset. These experiences shaped a strong foundation for my pharmacy career.

Prakhar Srivastava
B.Pharm 2nd year

The college offered excellent infrastructure, laboratories, and exposure through seminars, workshops, and industrial visits that helped close the gap between academics and real-world practice. IIMT College deeply instilled in me the values of teamwork, discipline, and ethical conduct in the field of pharmacy. I will always stay thankful to my mentors and the whole IIMT family for leading me toward a meaningful and successful career in healthcare.

Shashank Kumar
B.Pharm 2nd year

Alumni Corner

IIMT College of Pharmacy has provided me with a supportive and inspiring academic environment that has helped me grow both professionally and personally. The faculty members are highly knowledgeable, approachable, and always willing to guide students beyond the classroom. The college emphasizes practical learning through well-equipped laboratories, industrial exposure, seminars, and workshops, which has strengthened my understanding of pharmaceutical sciences. Regular academic activities, cultural events, and student-centric programs create a balanced atmosphere that encourages confidence, teamwork, and leadership. The disciplined yet friendly campus culture, along with continuous mentoring and academic support, has played a significant role in shaping my career aspirations and preparing me for future challenges in the pharmacy profession.

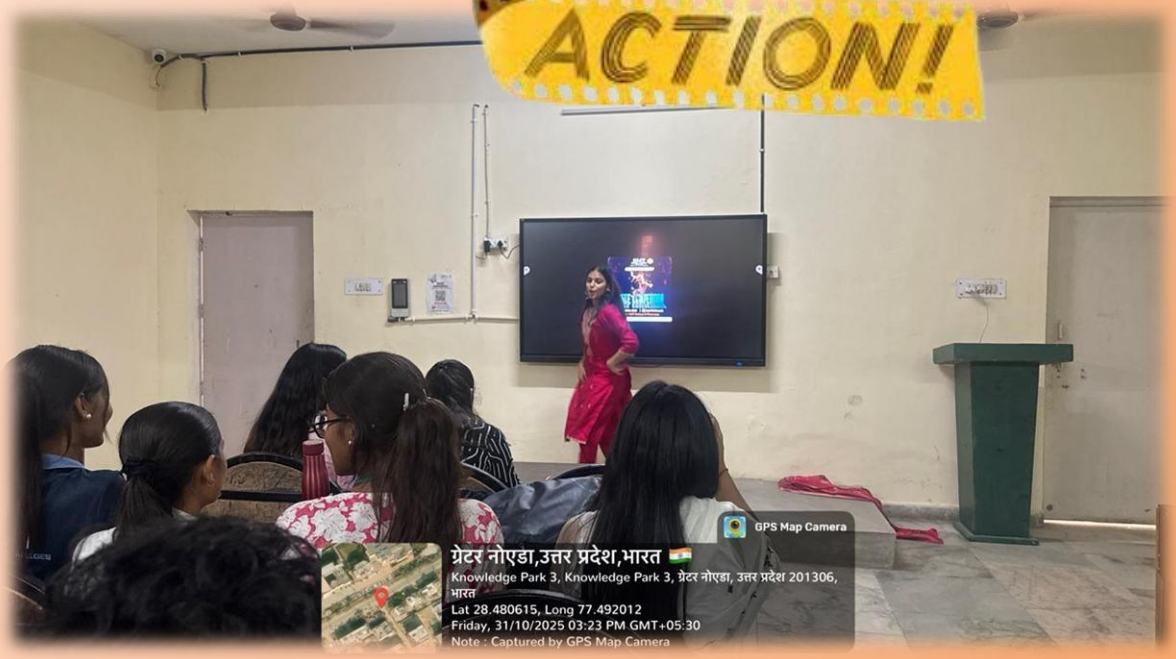
Mahesh Seth
Alumni

As a student of IIMT College of Pharmacy, I feel proud to be part of an institution that truly focuses on quality education and holistic development. The college offers excellent infrastructure, modern laboratory facilities, and a well-structured curriculum that keeps pace with industry requirements. The encouragement provided by faculty and management motivates students to participate in research activities, conferences, and extracurricular initiatives. The learning environment promotes innovation, ethical values, and professional discipline, which are essential qualities for a successful pharmacist. IIMT College of Pharmacy has not only enhanced my academic knowledge but has also instilled confidence, responsibility, and a clear vision for my future in the pharmaceutical field.

Shubham Singh
Alumni

Dance Competition

The Dance Competition at IIMT College was a vibrant showcase of talent, rhythm and creativity. Students from various departments came together to perform energetic and diverse dance forms, filling the stage with excitement. The event highlighted the confidence, discipline and artistic expression of the participants. Each performance reflected dedication and countless hours of practice. The cheering audience added to the enthusiasm, making the evening truly memorable. The competition not only celebrated art and culture but also strengthened the spirit of togetherness among students.



YUKTI Innovation Challenge 2025

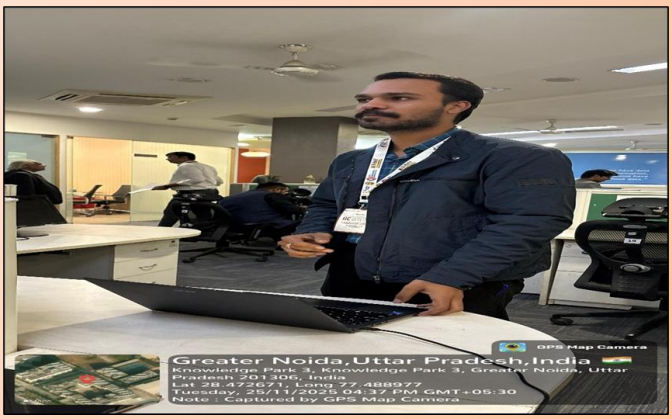
The IIC IIMT College of Pharmacy, Greater Noida, proudly celebrates a remarkable academic and innovative achievement by its M.Pharm. Students, Aditya Kumar Singh and Aanchal Dhaiya, who have been shortlisted for the prestigious YUKTI Innovation Challenge 2025. Organized by the Ministry of Education's Innovation Cell (MIC), Government of India, the YUKTI Innovation Challenge is a highly competitive, national-level initiative that recognizes original thinking, problem-solving ability, and entrepreneurial vision among young innovators.

Being shortlisted for this challenge reflects not only the technical competence of the students but also their creativity, perseverance, and commitment to impactful innovation. The platform offers valuable opportunities in the form of expert mentorship, incubation support, and potential funding, thereby nurturing ideas with real-world relevance. This achievement brings immense pride to the institution and stands as a testament to the vibrant innovation ecosystem fostered at IIMT College of Pharmacy. It also highlights the institution's continued dedication to encouraging research, entrepreneurship, and excellence among its students. We extend our heartfelt congratulations to Aditya Kumar Singh and Aanchal Dhaiya and wish them continued success as they represent the college on this esteemed national platform.

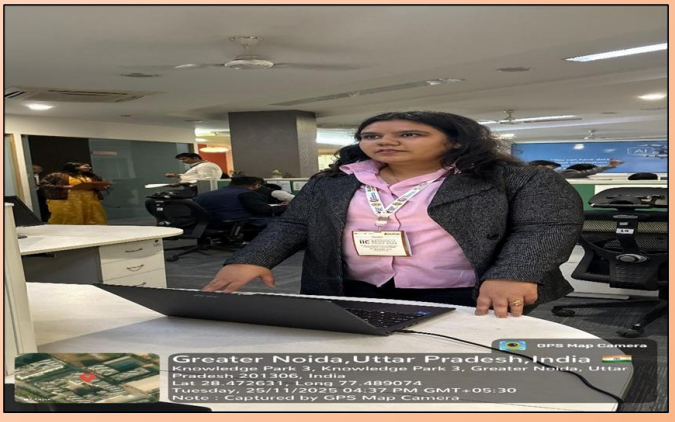
May they continue to innovate, inspire, and scale new heights of excellence.

IIC Regional Meet 2025 Report

The IIC Regional Meet 2025, a one-day national-level event organized by the Ministry of Education's Innovation Cell (MIC) in association with the Institutions' Innovation Council (IIC), AICTE, was held on 25th November 2025 at G L Bajaj Institute of Technology & Management, Greater Noida. The meet brought together representatives from institutions with active IICs, faculty members, student council representatives, and Innovation Ambassadors, fostering a vibrant exchange of ideas and best practices in innovation and entrepreneurship.



The primary objective of the meet was to promote a strong innovation culture within higher education institutions while strengthening collaboration with the MoE's Innovation Cell. The event also served as a platform to share institutional best practices, discuss AICTE initiatives, and align academic innovation activities with national priorities in education, research, and entrepreneurship.



The program commenced with an inaugural session featuring distinguished addresses by Prof. T. G. Sitharam, Chairman, AICTE, and Dr. Dipan Sahu, Assistant Innovation Director, MoE's Innovation Cell. The academic sessions included panel discussions on institutional innovation ecosystems, workshops on intellectual property rights and startup incubation, and presentations of innovative projects by participating institutions, encouraging interdisciplinary learning and collaboration.

IIC Regional Meet 2025 Report

A key highlight of the meet was the recognition of Ms. Nisha Gupta, President, IIC IIMT College of Pharmacy, Greater Noida, who was awarded a Certificate of Participation for attending the event and presenting the Annual Report for the Academic Year 2024–25 through a poster presentation. The participation reflected the institution's consistent efforts in strengthening innovation-driven academic practices.

Further enhancing the institution's achievements, two projects from IIMT College of Pharmacy qualified for the YUKTI Challenge 2025 – Qualifiers. The selected projects—"Development of a Curcumin-Phospholipid Complex for Transdermal Delivery: A Phytosome-Based Herbal Patch" and "Mucoadhesive Buccal Tablet Comprising Iptakalim and Hibiscus sabdariffa Extract for Synergistic Management of Hypertension"—demonstrate the institution's commitment to translational research, herbal innovation, and impactful healthcare solutions.

IDEATHON WINNER

congratulations

IDEATHON WINNER

congratulations

Debate competition

The Debate Competition held at IIMT College provided an intellectually stimulating platform for students to voice their perspectives, challenge ideas, and engage in thoughtful discourse. The event witnessed enthusiastic participation from students across various departments, each bringing forward well-researched arguments, logical reasoning, and confident articulation. The atmosphere resonated with curiosity, critical thinking, and academic vigor, making the competition both enlightening and engaging.

Participants showcased exceptional oratory skills, clarity of thought, and the ability to present complex viewpoints with confidence and composure. The diversity of topics encouraged students to think beyond conventional boundaries, fostering analytical thinking and respectful exchange of ideas. The judges commended the participants for their depth of understanding, persuasive presentation, and disciplined approach to debating, reflecting the institution's emphasis on holistic learning.

The competition not only highlighted the intellectual potential of the students but also reinforced essential skills such as public speaking, critical analysis, and constructive argumentation. Events like these play a vital role in nurturing leadership qualities and self-expression among students. The Debate Competition concluded on a high note, leaving participants enriched with knowledge, confidence, and a renewed enthusiasm for academic excellence at IIMT College.

Trips

IIMT College of Pharmacy Students Set Out on an Inspiring Journey to Manali & Kasol

In an initiative that blends education with exploration, the first-year students of IIMT College of Pharmacy, Greater Noida, embarked on an exciting educational tour to the breathtaking destinations of Manali and Kasol. Organized under the institution's guiding motto, "Aim for Excellence," the tour was designed to offer students a refreshing break from routine academics while enriching their overall learning experience.

Nestled amidst snow-clad mountains and lush valleys, Manali provided the students with an opportunity to witness nature in its most majestic form. The tour itinerary included sightseeing of scenic landscapes, interaction with local culture, and thrilling adventure activities such as paragliding, which instilled a sense of confidence, courage, and enthusiasm among the participants. Kasol, with its serene surroundings and tranquil environment, offered moments of reflection and relaxation, allowing students to connect with nature and rejuvenate their minds. Beyond recreation, the tour served as a valuable platform for experiential learning and team building. Students developed stronger interpersonal bonds, enhanced their communication skills, and learned the importance of cooperation and adaptability while navigating new environments together. Such experiences contribute significantly to shaping well-rounded individuals who are prepared to face academic and professional challenges with resilience.

IIMT College of Pharmacy consistently emphasizes holistic development alongside academic excellence. Educational tours like these play a vital role in broadening students' perspectives, encouraging curiosity, and fostering leadership qualities beyond the classroom walls. The Manali and Kasol tour stands as a memorable chapter in the academic journey of the students, leaving them enriched with lifelong memories, strengthened friendships, and renewed motivation to pursue excellence in their chosen field.

Manali Diaries

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Splash into Adventure

PLANTATION DRIVE

IIMT College of Pharmacy, Greater Noida, organized a Plantation Drive as a meaningful step toward environmental sustainability and ecological responsibility. Held at the college's Herbal Garden, the event reflected the institution's enduring commitment to nurturing not only academic excellence but also social and environmental consciousness among its students and faculty.

The plantation drive witnessed enthusiastic participation from students, faculty members, and staff, who came together with a shared vision of contributing to a greener and healthier future. Saplings were carefully planted and nurtured, symbolizing growth, responsibility, and hope. The serene surroundings of the herbal garden provided the perfect backdrop for fostering awareness about biodiversity, medicinal plants, and the importance of preserving nature.

Beyond planting trees, the event served as an educational experience, reinforcing the significance of environmental stewardship in everyday life. Students learned the value of sustainable practices and the long-term impact of collective efforts toward combating climate change and promoting ecological balance.

Such initiatives highlight IIMT College of Pharmacy's holistic approach to education, where academic learning is seamlessly integrated with social responsibility. The plantation drive concluded with a renewed sense of purpose among participants, leaving behind not just planted saplings, but a lasting commitment to protect and nurture the environment for generations to come.

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PLANTATION DRIVE

SPARDHA 4.0

IIMT College of Pharmacy successfully organized SPARDHA 4.0 on 20th and 21st November, a vibrant two-day fest celebrating the spirit of competition, creativity, and innovation. The event brought together students from various institutions, making it one of the most energetic and engaging editions so far. SPARDHA 4.0 featured a dynamic blend of sports, cultural, and technical events, providing a platform for students to showcase their talent, leadership, and teamwork. The sports competitions infused enthusiasm and healthy rivalry, the cultural activities highlighted artistic excellence, and the technical events encouraged innovation and problem-solving among participants.

This year, the event witnessed an impressive participation of more than 600 students, including 34 students from outside colleges, adding diversity and competitive excitement to the fest.

Their involvement contributed to a vibrant exchange of ideas and fostered inter-institutional camaraderie. Overall, SPARDHA 4.0 was a grand success, reflecting the dedication of the organizers, faculty, and student volunteers. It not only promoted holistic development but also strengthened the sense of community within and beyond the campus.

Dance Competition

Singing

SPARDHA 4.0 Highlights

SPARDHA 4.0 Highlights

HOSPITAL VISITS

Pharma News

Circulation of Counterfeit Rabies Vaccines Abhayrab®

Recent health alerts issued by international authorities, including those from Australia and the United Kingdom, have drawn attention to the circulation of counterfeit batches of the rabies vaccine Abhayrab® in India since at least November 2023. Rabies is a universally fatal disease once clinical symptoms appear, but it is entirely preventable through timely and effective vaccination.

The presence of falsified rabies vaccines in the supply chain therefore represents a serious public health threat, as individuals who believe they are protected may in fact remain vulnerable to infection. These counterfeit products are suspected to carry incorrect labeling, fake batch numbers, or insufficient or absent active ingredients, rendering them ineffective for post-exposure prophylaxis. The scam has raised concerns about weaknesses in pharmaceutical regulation and distribution systems. Counterfeit vaccines often enter the market through unauthorized distributors, informal healthcare settings, or poorly regulated supply chains, particularly in high-demand situations such as emergency rabies exposure. International alerts were issued after suspected fake Abhayrab® vaccines were identified in patients who had received vaccination in India, prompting warnings to travelers and healthcare professionals. For individuals who may have received a suspected counterfeit rabies vaccine, health authorities advise against panic but stress the importance of immediate medical consultation. Doctors are encouraged to review vaccination records, including the vaccine brand, batch number, date, and place of administration. In many cases, revaccination with a verified, WHO-approved rabies vaccine may be recommended to ensure adequate protection. Prompt reporting of suspected counterfeit vaccines to drug regulatory authorities and pharmacovigilance centers is critical to enable investigation, product recalls, and prevention of further exposure.

In conclusion, the circulation of counterfeit Abhayrab® rabies vaccines is a serious warning that access to medicines must be matched with assurance of quality and authenticity. Rabies prevention relies entirely on timely and effective vaccination, and any compromise can be fatal. Coordinated action involving regulators, healthcare professionals, and the public is essential to contain such scams, protect patients, and restore confidence in vaccination systems.

Sakshi
B.Pharm 4th year

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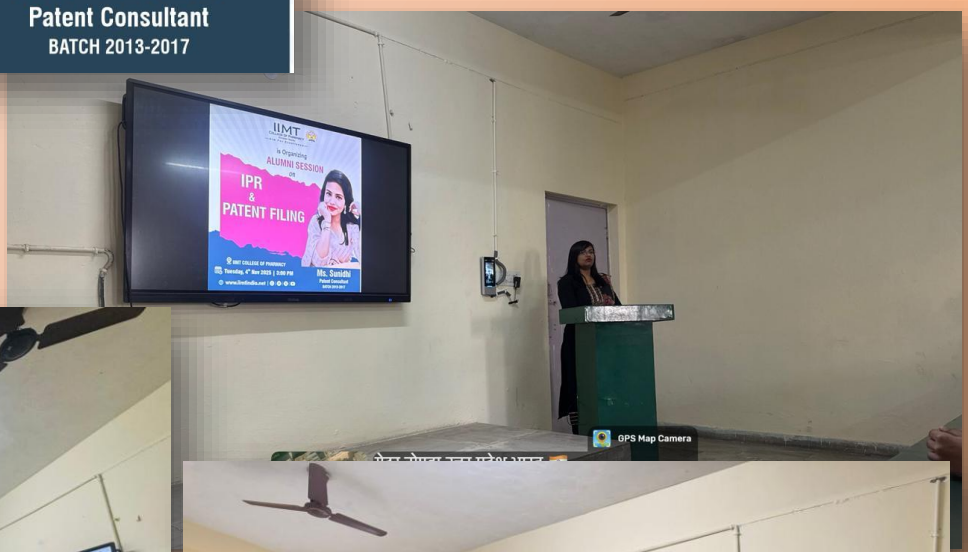
ALUMNI SESSION



Birthday Celebration

MoU Signing Ceremony

IDEATHON

IIMT College of Pharmacy, Greater Noida, successfully organized an Inter-College Ideathon on Idea Representation, focusing on Innovation and Entrepreneurship in the Healthcare Sector. The event provided a dynamic platform for students to present innovative ideas addressing contemporary challenges in healthcare. With an emphasis on creativity, problem-solving, and entrepreneurial thinking, the Ideathon encouraged participants to transform academic knowledge into practical and impactful solutions.

The competition witnessed active participation not only from IIMT College of Pharmacy but also from Lloyd College and Metro College, fostering healthy intercollegiate interaction and knowledge exchange. Students showcased diverse ideas demonstrating innovation, feasibility, and social relevance. The event concluded with the distribution of certificates to all participants, reinforcing the institution's commitment to nurturing innovation, research culture, and entrepreneurial spirit among students.

Overall, the event was a significant step toward strengthening an innovation-driven academic culture. The active involvement of students, constructive feedback from evaluators, and the spirit of healthy competition made the Ideathon a resounding success. Such initiatives reaffirm IIMT College of Pharmacy's commitment to encouraging innovation, entrepreneurship, and holistic professional development among future healthcare leaders.

IDEATHON GLIMPSES

A Moment of Pride for IIMT Parivar

Mantra Publication AND RESEARCH SOLUTION

Mantra Publication & Research Solution

Regd. With Ministry of MSME, Govt of India

CERTIFICATE

OF APPRECIATION

BEST DIRECTOR AWARD

This award is proudly awarded to

Prof. (Dr.) Nakul Gupta

Department of Pharmacology,
IIMT College of Pharmacy

In recognition of their visionary leadership, innovative academic initiatives, promotion of high-impact research culture, and unwavering commitment to excellence in education, institutional development, and knowledge advancement.

Founder & Managing Director

Certificate issued on: 13/12/2025

Certificate Number: MPRS/12/2025010

Media Coverage

आइआइएमटी कालेज में दो दिवसीय खेल स्पर्धा संपन्न

जासं, ग्रेटर नोएडा: आइआइएमटी कालेज आफ फार्मेसी में आयोजित दो दिवसीय खेल स्पर्धा शुक्रवार को संपन्न हुई। प्रतियोगिता में दिल्ली-एनसीआर के शिक्षण संस्थानों से करीब 300 छात्रों ने भाग लिया। स्पर्धा को तीन श्रेणियों सांस्कृतिक, खेल व तकनीकी वर्ग में बांटा गया। जिसमें सोलो डांस, ग्रुप डांस, सोलो सिंगिंग, इंस्ट्रूमेंट प्लेइंग, कबड्डी, शतरंज, बैडमिंटन, खो-खो, रस्साकशी,क्विज, फार्म वाद-विवाद, फ्री हैंड स्केचिंग, ड्राइंग प्रतियोगिता में छात्रों ने प्रतिभा दिखाई। समापन समारोह के दौरान उत्तर प्रदेश की पूर्व मंत्री रीता बहुगुणा व एमएलसी श्रीचंद शर्मा छात्रों के बीच पहुंचे। स्वागत कालेज समूह के प्रबंध निदेशक डा. मयंक अग्रवाल ने किया। अतिथियों ने सभी प्रतिभागियों को सर्टिफिकेट प्रदान किए। कालेज समूह के डिप्टी डायरेक्टर डा. हर्षित सिन्हा, कालेज आफ फार्मेसी के डायरेक्टर डा. नकुल गुप्ता, एचआर हेड अजय राम पुरी मौजूद रहे।

आइआइएमटी कालेज में विजेताओं को पुरस्कृत करते अतिथि • सौ. कालेज

अमर उजाला

Greater noida

22-11-2025

आईआईएमटी कॉलेज में खेल प्रतियोगिता का समापन

ग्रेटर नोएडा (वि)। आईआईएमटी कॉलेज ऑफ फार्मेसी में आयोजित दो दिवसीय स्पर्धा का शुक्रवार को समापन हुआ। दिल्ली-एनसीआर के विभिन्न शिक्षण संस्थानों के करीब 300 छात्रों ने प्रतियोगिता में हिस्सा लिया। कार्यक्रम को सांस्कृतिक, खेल और तकनीकी तीन श्रेणियों में आयोजित किया गया, जिसमें सोलो व ग्रुप डांस, सोलो सिंगिंग, इंस्ट्रूमेंट प्लेइंग, कबड्डी, शतरंज, बैडमिंटन, खो-खो, रस्साकशी, क्विज, फार्म वाद-विवाद, फ्री हैंड स्केचिंग और ड्राइंग प्रतियोगिता शामिल थीं। समापन समारोह में उत्तर प्रदेश की पूर्व मंत्री रीता बहुगुणा और एमएलसी श्रीचंद शर्मा ने शिरकत की। स्वागत कॉलेज समूह के प्रबंध निदेशक डॉ. मयंक अग्रवाल ने किया। अतिथियों ने प्रतिभागियों को सर्टिफिकेट और विजेताओं को ट्रॉफी व नकद पुरस्कार प्रदान किए। कार्यक्रम में डिप्टी डायरेक्टर डॉ. हर्षित सिन्हा, कॉलेज ऑफ फार्मेसी के डायरेक्टर डॉ. नकुल गुप्ता, एचआर हेड अजय राम पुरी सहित कॉलेज के डायरेक्टर, डीन, एचओडी और छात्र मौजूद रहे। ब्यूरो

IIMT College of Pharmacy, Greater Noida, successfully organized a two-day intercollegiate sports and cultural competition, SPARDHA 4.0, witnessing enthusiastic participation from students of various institutions. The valedictory ceremony was graced by Prof. Smt. Rita Bahuguna Joshi, former Minister of Uttar Pradesh, as the Chief Guest, who applauded the students' enthusiasm and emphasized the role of sports and cultural activities in shaping disciplined and confident individuals. The event was held under the esteemed guidance of Dr. Mayank Agarwal, Managing Director, IIMT Group of Colleges, whose visionary leadership continues to promote excellence in academics and extracurricular engagement. Dr. Nakul Gupta, Director, IIMT College of Pharmacy, highlighted the institution's commitment to holistic student development. Winners were felicitated with certificates and medals, marking the successful conclusion of the event with a spirit of unity, discipline, and healthy competition.

Certification by Students

BE MEDIC ACADEMY

Skill India
कौशल भारत-कुशल भारत

Diabetes Nutrition Certificate

This is to certify that

Aviraj Kumar Gaurav

has completed **3 Hours Masterclass** specialised **Diabetes Nutrition Certificate** under **BeMedic Academy.**
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Pharma Bulletin

Delhi-NCR's Air Pollution Crisis: Surging Lung Diseases Amid Toxic AQI

Delhi and the National Capital Region (NCR) are facing a severe lung health crisis driven by skyrocketing Air Quality Index (AQI) levels, often exceeding 400 in the "severe" category during winter 2025. Fine particulate matter like PM2.5 from vehicles, crop burning, and factories infiltrates deep into the lungs, sparking inflammation that worsens conditions such as asthma, COPD, bronchitis, and pneumonia.

This toxic air has led to over 204,000 acute respiratory illness cases across six major hospitals like AIIMS and Safdarjung from 2022-2024, with admissions surging to more than 10,000 last year alone.

Children and the elderly are hit hardest, overwhelming pediatric wards with first-time wheezing and emergency nebulizer use, while 82% of NCR residents report loved ones suffering coughs, allergies, or throat irritation since October. Long-term exposure heightens risks of lung cancer, fibrosis, and heart disease for the region's 20 million people breathing hazardous smog daily, with no "good" AQI days recorded in 2025. ICMR studies confirm direct links between AQI spikes and ER visits, as particles deposit in lung alveoli, impairing oxygen exchange. Government surveillance through IHIP monitors 230+ sites, acknowledging pollution as a major trigger alongside infections, but winter farm fires and trapped emissions keep AQI at 380-500 in December. Simple steps like wearing N95 masks, using indoor purifiers, and following GRAP restrictions offer short-term relief, yet experts stress urgent shifts to cleaner fuels and reduced emissions to avert this public health emergency.

Delhi-NCR's air pollution crisis, with AQI routinely surpassing 400, has triggered a sharp rise in lung diseases like asthma, COPD, and pneumonia across the region.

Six key hospitals including AIIMS and Safdarjung reported over 204,000 acute respiratory cases from 2022-2024, with admissions climbing to 10,819 in 2024 alone as PM2.5 particles inflame airways and deposit deep in alveoli. Pediatric units are swamped with wheezing kids needing nebulizers, while 82% of locals know someone battling pollution-induced coughs or allergies since October 2025. Chronic exposure fuels fibrosis, cancer, and heart issues for 20 million residents, with zero "good" AQI days in 2025 worsening the toll. N95 masks, HEPA purifiers, and GRAP curbs provide relief, but experts demand cleaner fuels to end this smog-fueled health emergency.

Shubham Singh
B.Pharm (2nd Year)

Student Publications

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Scopus

A Comprehensive Review: On Solubility and Bioavailability Enhancement of Levodopa in the Treatment of Parkinson Diseases

Rachna Sharma*, Puspendra Jain, Nakul Gupta

Department of Pharmaceutics, IIMT College of Pharmacy, Greater Noida India.

ABSTRACT

Levodopa (L-DOPA) remains the most effective symptomatic treatment for Parkinson's disease (PD), but oral therapy is limited by low and variable bioavailability, peripheral metabolism, gastric-emptying effects and formulation-related absorption issues. This review summarizes the physicochemical and pharmacokinetic hurdles for levodopa and critically reviews formulation and delivery strategies aimed at improving solubility, systemic exposure and brain delivery. Approaches covered include prodrugs (e.g., melevodopa), salt/ionization and pH-based methods, cyclodextrin inclusion complexes, polymeric and lipid nanocarriers, gastroretentive and controlled-release oral systems, nasal/nose-to-brain routes, and parenteral/continuous infusion technologies. We highlight preclinical and clinical evidence, advantages and limitations of each tactic, and propose combined strategies and translational considerations for future development.

Keywords: Levodopa; Parkinson's disease; bioavailability; solubility enhancement; nanotechnology; gastroretentive drug delivery.

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Stimuli-Responsive In Situ Gelling System for Ocular Drug Delivery: From Polymer Design to Clinical Translation

Sapna Yadav*, Nakul Gupta, Nitin Kumar, Adiba Rahman, Bipasha Ray

IIMT College of Pharmacy, Greater Noida

ABSTRACT

A potential approach to ocular medication delivery, in situ gelling devices overcome the drawbacks of traditional eye drops, namely their limited bioavailability and quick drainage. These systems provide extended drug retention on the ocular surface by changing from a liquid to a gel when exposed to particular physiological circumstances such as pH, temperature, or ionic strength. The necessity for frequent administration is reduced and therapeutic efficacy is increased by this sustained release mechanism. In situ systems employ temperature-sensitive, pH-sensitive, and ion-activated gelation mechanisms. When ion-sensitive systems, including those that use sodium alginate and gellan gum, come into touch with divalent ions, they gel. While pH-sensitive polymers, like chitosan, gel in response to variations in ocular pH, temperature-sensitive polymers, like poly(N-isopropylacrylamide), gel at body temperature. These systems are designed to satisfy particular requirements for drug delivery. Both synthetic polymers like poloxamers and poly(N-isopropylacrylamide) and natural biopolymers like gellan gum, sodium alginate, and chitosan are frequently utilized in in situ gelling systems. These polymers were chosen because of their regulated drug delivery capabilities, gelling qualities, and biocompatibility. In situ gelling systems have been used in clinical settings to treat a range of eye disorders, such as glaucoma, post-operative inflammation, conjunctivitis, and dry eye syndrome. They offer better patient compliance, decreased drug waste, and increased drug retention. Notwithstanding these benefits, issues with stability, eye discomfort, and regulatory approval still exist. It is anticipated that developments in formulation techniques and stimuli-responsive polymers will increase the effectiveness of in situ gelling systems in ocular medication administration.

Keywords: In situ gel, stimuli-responsive, polymers, mucoadhesion.

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ALZHEIMER'S DISEASES INSIGHTS: FROM MECHANISM TO TREATMENT

Nikita Kumari[1], Md. Hazique Azmi*[2], Priyangshu Kumar Jha[3], Dr. Nakul Gupta[4], Sudhir Kumar[5]

IIMT College of Pharmacy. A.P.J Abdul Kalam Technical University (AKTU), Knowledge Park 3, Greater Noida, Gautam Budha Nagar-201310, U.P, India.

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ABSTRACT

Alzheimer's disease is the progressive neurodegenerative disease leading cause of dementia, slowly destroying memory, thinking, and independence until daily basic life becomes impossible. WHO stated Alzheimer's been the most fatal disease and occurring older adults. The Alzheimer's disease follows the hypothesis which are amyloid hypothesis and Tau hypothesis. Fragment of a protein called amyloid accumulates outside neurons, forming sticky plaque. These plaques disturb communication between cells, trigger inflammation, and set off toxic chemical reaction that damage brain tissue. Hand in hand amyloid comes in tau pathway, tau is a protein that normally stabilize the cell internal transport system. In Alzheimer's tau becomes abnormally modified, clumping together into twisted tangles inside neurons. These tangles block the transport of nutrients and signals, causing the affected cells to weaken and die. Treating Alzheimer's has always been difficult because the disease involves many damaging processes at once. The first treatment focus on symptom relief drugs like-donepezil, rivastigmine, and galantamine boost acetylcholine to support memory, while memantine helps protect neurons grom glutamate overload. These provide temporary benefits but do not stop progression. More recently, therapies have turned to the roots of the disease. Antibody drugs such as Aducanumab and donanemab target and clear amyloid plaques, showing some ability to slow decline, though side effects remain a concern. Hence current treatments only aim to slow decline, not to regenerate or repair damaged neurons. This review is covered based on the information subject to various source for scientific, technical, and medical research like science direct, Scopus, Web of science, PubMed etc.

KEYWORDS: Alzheimer's disease, etiology, oxidative stress, apolipoprotein, western diet, APPswe.

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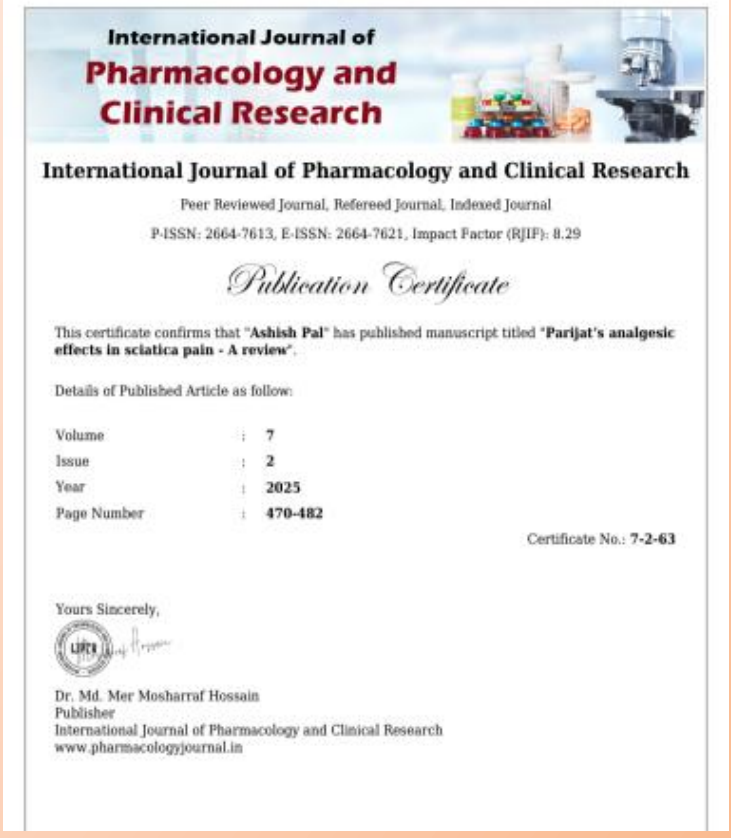

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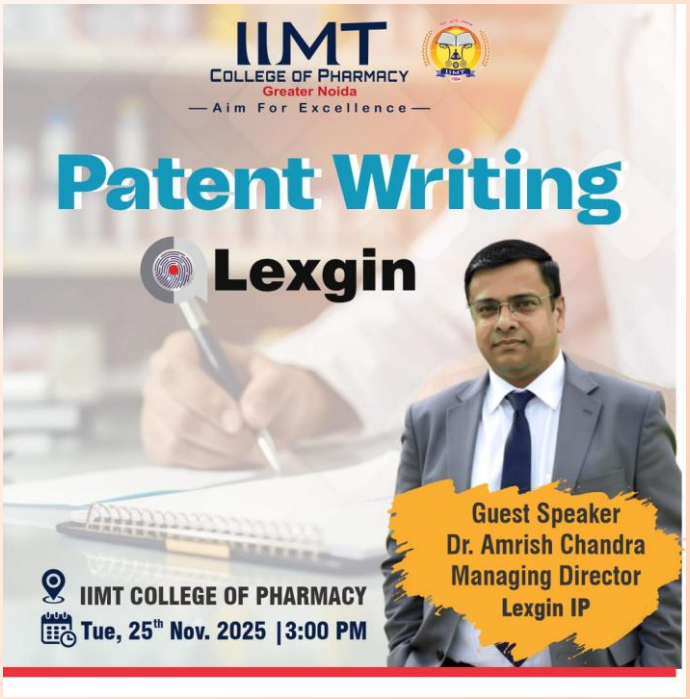

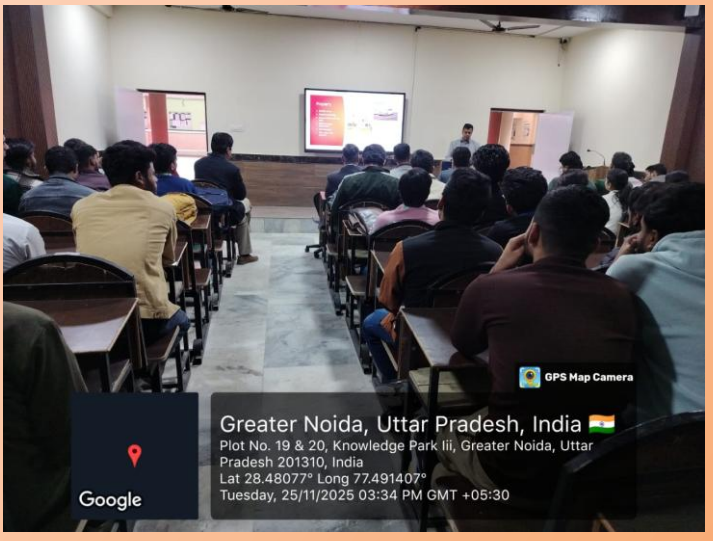

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SHORT COMMUNICATION

Exploring Phytochemicals for Inhibitory Potential against Key Rheumatoid Arthritis Receptors and Cytokines: An *In Silico* Approach

Preeti Maan[1,2], Shilpi Chauhan[2], Nisha Gupta[3] and Dimpy Rani[1*]

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Abstract

Background: Rheumatoid Arthritis (RA) is an autoimmune disease which not only affects the synovial joints but also leads to other co-morbidities. Existing treatments provide only symptomatic relief to patients. This highlights the need for safer and more effective natural lead compounds. **Aim:** To identify potential natural lead compounds for RA by virtually screening selected phytoconstituents against key inflammatory and immunological targets. **Methods:** In urge to search a natural lead candidate, a virtual screening was performed with a total of 27 phytoconstituents against cyclooxygenase-1 (COX-1), cyclooxygenase-2 (COX-2), interleukin-6 (IL-6), Janus kinase-1 (JAK-1), Janus kinase-2 (JAK-2), mitogen-activated protein kinase-14 (MAPK-14), matrix metalloproteinase-9 (MMP9), and tissue necrosis factor-α (TNF-α) using PyRx software. Their ADME prediction was performed using SwissADME. Further, Molinspiration was used to determine the bioactivity score of the selected phytoconstituents as G-Protein Coupled Receptors (GPCR) ligand, Kinase Inhibitor (KI), Ion Channel Modulator (ICM), Protease Inhibitor (PI), Nuclear Receptor Ligand (NRL), and Enzyme Inhibitor (EI). The toxicity of these phytoconstituents was also predicted with the Protox-II web server. **Results:** The docking results displayed that hesperidin, sanguinarine, hecogenin, berberine, naringenin, genistein, piperine, and epicatechin-3-gallate have better binding affinity than the standard drug methotrexate with all the studied receptors. Most of the molecules showed acceptable druglikeness and leadlikeness properties and followed Lipinski's rule of five. All these molecules were found to have moderate activity as GPCR ligands, KI, ICM, PI, NRL, and EI. Further, the toxicity prediction gave promising results. **Conclusion:** The results revealed that these bioactive compounds can provide novel lead candidates that might modulate immunological factors, which in turn prevent rheumatoid arthritis.

Major Findings: The virtual screening filtered out eight phytoconstituents, hesperidin, sanguinarine, hecogenin, berberine, naringin, genistein, piperine, and epicatechin-3-gallate, which possessed good binding affinity with all the studied receptors. These molecules were predicted to have good oral absorption with immunomodulation properties.

VER
Vascular & Endovascular Review

Natural Psychobiotic Foods and Their Role in Gut–Brain Axis Modulation

Heena Mittal*[1], Neeti Srivastav[2], Shruti Srivastav[3], Ashish Joshi[4], Harshita Chandra[5], Winnie Rose Daimari[6], Charu Mehra[7]

ABSTRACT

The bidirectional communication between the gut and brain, termed the gut–brain axis, has emerged as a critical determinant of mental health and neurological function. Growing evidence highlights the role of gut microbiota in modulating neurochemical signaling, stress response, mood regulation, and cognitive performance. Psychobiotics, a class of probiotics and prebiotics that beneficially influence brain function, have gained increasing attention. In particular, natural psychobiotic foods—such as fermented dairy products, kimchi, sauerkraut, kefir, tempeh, kombucha, whole grains, legumes, and polyphenol-rich fruits and vegetables—offer sustainable and non-pharmacological approaches to enhance mental well-being. These foods contain live beneficial microbes, prebiotic fibers, or bioactive compounds that modulate gut microbiota composition, promote the production of short-chain fatty acids, and regulate neurotransmitter pathways, including serotonin, dopamine, and γ-aminobutyric acid. Moreover, dietary psychobiotics influence systemic inflammation and hypothalamic–pituitary–adrenal (HPA) axis activity, thereby mitigating anxiety, depression, and cognitive decline. Despite compelling preclinical and clinical evidence, challenges remain in standardizing dietary intake, establishing dose–response relationships, and understanding individual variability in gut microbiome responses. This review aims to provide a comprehensive overview of natural psychobiotic foods, their microbial and biochemical mechanisms, and their potential applications in preventive and therapeutic strategies for mental health. Emphasis is placed on recent advances in gut microbiome research, food-based interventions, and translational opportunities to integrate natural psychobiotics into daily nutrition. Ultimately, harnessing natural psychobiotic foods represents a promising frontier in personalized nutrition and sustainable mental healthcare.

KEYWORDS: Psychobiotics, Gut–brain axis, Microbiota, Fibres, Probiotics, Prebiotics.

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RESEARCH ARTICLE

FORMULATION AND OPTIMIZATION OF SOLID DISPERSION OF GLIBENCLAMIDE TO ENHANCE SOLUBILITY AND BIOAVAILABILITY

Ekta Upadhyay*[1], Sheetal Soni[2], Priyanka Singh Rajora[3], Bimal Debbarma[4], Kirti V. Deshpande[5], Ujwala Suryakant Mali[6], Niranjan Rao Podili[7], Himank Varshney[8]

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Abstract: Glibenclamide is a poorly water-soluble BCS Class II antidiabetic drug whose clinical efficacy is limited by low dissolution rate and variable oral bioavailability. This study aimed to formulate and optimize solid dispersions (SDs) of glibenclamide to enhance its aqueous solubility, in-vitro dissolution, and in-vivo bioavailability. Solid dispersions were prepared using solvent-evaporation and hot-melt techniques with hydrophilic carriers (polyvinylpyrrolidone K30, polyethylene glycol 4000/6000, and poloxamer 188) and a hydrophilic surfactant where appropriate. A statistical Design of Experiments (DoE) approach (Box–Behnken design) was used to screen formulation variables (drug:carrier ratio, processing temperature/solvent volume, and surfactant percentage) and to identify optimized conditions. The SDs were characterized by differential scanning calorimetry (DSC), powder X-ray diffraction (PXRD), Fourier-transform infrared spectroscopy (FTIR), scanning electron microscopy (SEM), and particle-size analysis to assess physical state, drug–carrier interactions, and morphology. Equilibrium solubility and dissolution profiles (USP paddle method) were compared with pure drug and physical mixtures. Selected optimized SDs were evaluated for pharmacokinetics in a rat model to determine Cmax, Tmax and AUC and estimate relative oral bioavailability. Optimized solid dispersions demonstrated conversion of crystalline glibenclamide toward an amorphous or molecularly dispersed state, suppressed melting endotherm, and absence/reduction of characteristic crystalline peaks. These changes correlated with markedly improved wettability, a faster and higher in-vitro dissolution (complete or substantially increased percent release within the first 30–60 minutes), and significantly greater aqueous solubility compared to raw drug and physical mixtures ($p < 0.05$). Pharmacokinetic evaluation showed enhanced systemic exposure, indicating improved oral bioavailability of glibenclamide from optimized SDs. The study concludes that appropriately optimized solid dispersion systems can effectively overcome solubility-limited absorption of glibenclamide, offering a promising strategy for improved therapeutic performance.

Keywords: Glibenclamide; solid dispersion; solubility enhancement; bioavailability; hot-melt extrusion; solvent evaporation; Box–Behnken design; DSC; PXRD.

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Anti-Infective Agents, XXXX, XX, XXXX

REVIEW ARTICLE

Nanogel Formulation for Enhanced Fungal Infection Treatment

Pooja Pandey[1,*], Nakul Gupta[1] and Kamal Singh[1]

[1]*Department of Pharmacy, IIMT College of pharmacy, Greater Noida, 201310, India*

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Abstract: Fungal infections pose a significant global health burden, affecting millions annually, particularly in resource-limited regions. Traditional antifungal therapies, while effective, often present challenges such as limited skin penetration, systemic toxicity, and undesirable side effects, necessitating frequent application of high drug doses. Nanogel formulations offer a promising solution by integrating advanced nanotechnology with enhanced drug delivery systems. These innovative formulations combine the benefits of nanocarriers and hydrogel matrices, ensuring improved drug stability, controlled release, and targeted delivery to infection sites. Nanogels enhance therapeutic efficacy by facilitating deeper penetration into skin layers and maintaining localized drug concentration, thereby minimizing systemic exposure and associated toxicities. They are versatile in encapsulating both hydrophilic and hydrophobic antifungal agents, addressing a wide spectrum of fungal infections, from superficial conditions like tinea versicolor to invasive subcutaneous mycoses. Additionally, the non-greasy, lightweight texture and reduced risk of irritation improve patient compliance, which is crucial for effective treatment outcomes.

Recent advancements in nanogel technology include the incorporation of natural oils, combination therapies, and stimuli-responsive systems, further broadening their therapeutic potential. Research into optimizing particle size, zeta potential, and formulation stability continues to enhance their clinical applicability. Moreover, nanogels show promise in overcoming antifungal resistance and exploring applications for systemic and neurological fungal infections. In conclusion, nanogel formulations offer a safer, more effective, and patient-friendly alternative to traditional antifungal treatments. With continued innovation and standardization, they hold the potential to significantly reduce the global burden of fungal diseases and revolutionize dermatological therapy.

Keywords: Nanogel, fungal, infections, traditional antifungal therapies, nanotechnology, nanogel technology, dermatological

Faculties Publications

USAGES OF IOT IN PHARMACEUTICAL INDUSTRY AND DRUG DESIGN DEVELOPMENT

Priya Pandey[1a], Nitin kumar[2*] Sameer Rastogi[3] Nidhi Srivastava[2] Esha Vatsa[4]

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ABSTRACT

From here, the pharmaceuticals and life sciences have also appeared to be quite technical and competing for international markets. Companies in the pharmaceutical and life sciences targeted digitalizing their business workflows these last two years. According to the World Economic Forum, there will be 50 billion connected devices by 2020, and 80% of businesses will be leveraging the powers of IoT to digitize their companies within a span of five years. The IoT is changing the pharmaceutical sector by automating drug manufacturing, drug discovery, and remote patient monitoring, etc. Hence, digitalization would be able to solve many challenges faced by pharma companies. The chapter analyses the insight into the concept of the Internet of Things in Pharmaceutical sectors.

Keywords: Clinical Trials, Drug Discovery, Pharmaceutical Manufacturing, IoT.

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OPEN ACCESS

Antihypertensive Medication Use Pattern in A Tertiary Care Hospital in New Delhi, India for Opd Visiting Patients

Md Sarfaraz Alam[1], Priya Chaturvedi[1], Priya Pandey[1], Satyendra Kumar Mishra[1], Shubham Verma[1], Vikas Chauhan[1], Vishnu Prabakar [1], Pooja Chaurasia[1], Md. Shamim [2*]

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ABSTRACT
40% of people aged 25 and older are thought to have systemic hypertension, according to estimates from the World Health Organisation (WHO). Surprisingly, only 55.6% of patients from high-income countries and 29.6% from low-income countries were able to obtain treatment. Finding out how frequently patients take antihypertensive drugs was the aim of this investigation. 500 people had antihypertensive medications given to them for the research. In a tertiary care hospital in New Delhi, India, a prospective cross-sectional study was conducted over the course of six months. Patients with hypertension took part in the study that was conducted at the hospital's Out Patients Door (OPD). Patients who are 80 years of age or older are not permitted to take part in the study. Data that was appropriate was gathered, and the pattern of antihypertensive medicine use was evaluated. 63% of patients were under 60 and 37% were over 60, making up the majority. The survey found that angiotensin-converting enzyme (ACE) inhibitors (384), either alone or in combination, were the most frequently given type of drug. Double therapy was the most often used type of combination therapy, using 31.6% of the time, followed by triple therapy (4.0%) and four drugs (0.2%). Our investigation came to the conclusion that since the majority of patients had comorbid illnesses, combined therapy was preferred. When drug use patterns were analysed in our study, telmisartan was the first-line antihypertensive medicine that was most commonly prescribed. I..

Keywords: *Antihypertensive drugs, Telmisartan, Angiotensin-converting enzyme (ACE) inhibitors, Out Patients Door, Combination therapy..*

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Original Research Article

COUMARIN DERIVATIVES AS POTENTIAL THERAPEUTIC AGENTS: SYNTHESIS, CHARACTERIZATION, COMPUTATIONAL STUDIES AND BIOLOGICAL EVALUATION

Article History:

Name of Author:
Dr. Hemendra Gautam[1], Dr. Suresh Kumar Beniwal[2], Ms. Anupama Katoch[3], Dr. Garima Verma[4], Dr. Charu Khanna[5], Dr. Harjeet Singh[6], Dr. Pankaj Mishra[7], Dr. Amit Semwal[8], *Ms. Rachana Belwal[9]

Affiliation:
[1]Professor and Dean, Faculty of Pharmaceutical Sciences, Future University, Bareilly, Uttar Pradesh, India, Pin Code- 243503

Abstract: The present study is to chemical synthesis, characterization and pharmacological evaluation of new phenoxy benzoyl methane Schiff base (SB1-SB5) as an antifungal agents. Among these the SB2 formulation is more potent against Candida Albicans when compared to the standard drug that is Clotrimazole and Terbinafine. Computational studies was also performed here by the Chem 3D Ultra version 11.0, 8.0, Schrodinger suite software programs. The results were showed the good drug like properties. The result revealed that Schiff base work as an antifungal agent as compared to the Clotrimazole and Terbinafine against to the Candida Albicans.

Keywords: Candida Albicans, Computational studies, Clotrimazole and Schiff base.

TRIADIC CROSSTALK IN CUTANEOUS AGING MOLECULAR MECHANISMS AND THERAPEUTIC OPPORTUNITIES

Ms. Mitali Singh [1], Mrs. Shruti Varshney [2], Ms. Pooja Chaurasia [3], Dr. Charu Khanna [4], Dr. Prashant Mathur [5], Dr. Pragya Prashant Gupta [6], Dr. Ashish Kumar [7], Mr. Panshul Chauhan [8], Ms. Rachana Belwal [9]

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Abstract

Skin aging represents a complex biological phenomenon orchestrated by the interplay of intrinsic genetic programs and extrinsic environmental factors. Recent advances have illuminated three pivotal molecular axes—cellular senescence, epigenetic reprogramming, and the cutaneo-microbial ecosystem—as interdependent drivers of age-associated cutaneous decline. Senescent cells, characterized by stable proliferative arrest and a proinflammatory secretory phenotype, accumulate with age and contribute to dermal atrophy and impaired regeneration. Concurrently, age-related epigenetic drift, encompassing aberrant DNA methylation patterns, histone modifications, and non-coding RNA activity, reshapes the chromatin landscape and modulates gene expression critical for skin integrity. In parallel, the skin microbiome undergoes compositional and functional shifts that exacerbate inflammaging and barrier dysfunction. This review synthesizes emerging evidence at the convergence of these domains, highlighting mechanistic crosstalk and bidirectional regulation. We further explore therapeutic strategies that target this triad, including senolytics, epigenetic modifiers, and microbiome-based interventions, emphasizing their translational potential and challenges in clinical implementation. By adopting an integrative lens, we propose a systems-biology framework to advance precision dermatology in the context of aging.

Keywords

Skin Aging; Cellular Senescence; Epigenetic reprogramming; Cutaneous microbiome and Senotherapeutics.

Faculties Publications

VER
Vascular & Endovascular Review

Phytochemical Diversity And Pharmacological Value Of Kava: Neuroprotective Implications Plant Parts

ABSTRACT

Recent years have seen a growing interest in the therapeutic potential of herbal treatments, particularly in treating disorders affecting the central nervous system (CNS), such as anxiety-related disorders and neurodegenerative diseases. Herbal medicines are generally less likely to cause adverse effects and are often more cost-effective than manufactured drugs. Among these, Kava has garnered attention due to its wide range of bioactive components, including terpenoids, alkaloids, flavokavains, kavalactones, and tannins. A number of components, including sedative, anxiolytic, neuroprotective, and muscle-relaxing properties, contribute significantly to its therapeutic effects. Kava phytochemical composition, pharmacokinetics, mechanisms of action, and potential therapeutic uses in neuropsychiatric disorders are all carefully examined in this investigation. Kava's effects on the body are mostly associated with its interaction with γ-aminobutyric acid (GABA) receptors, inhibition of monoamine oxidase B (MAO-B), modulation of calcium and sodium ion channels, and impact on important neurotransmitters such as dopamine, serotonin, and norepinephrine. Its potential for cancer treatment, anticonvulsant effects, and pain management have also been examined in recent studies. However, concerns regarding the safety features and hepatotoxic effects of different kava formulations necessitate more clinical and toxicological studies.Kava's current understanding is highlighted in this evaluation, which also highlights research gaps and examines the plant's potential as a bioactive agent for illnesses of the central nervous system and other therapeutic applications.

KEYWORDS: kava-kava, kavalactones, phytochemistry, neuroprotection, anxiolytic, bioactive compounds, CNS disorders

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Review Article

Cataract Management in the Modern Era: Therapeutic Advances and Unmet Needs

Author(s): Sumit Durgapal, Prashant Kumar, Bhakti Sudha Pandey, Joy Das, Sathvik Belagodu Sridhar, Sumel Ashique, Anurag Verma, Baby Ilma and Md. Sadique Hussain*

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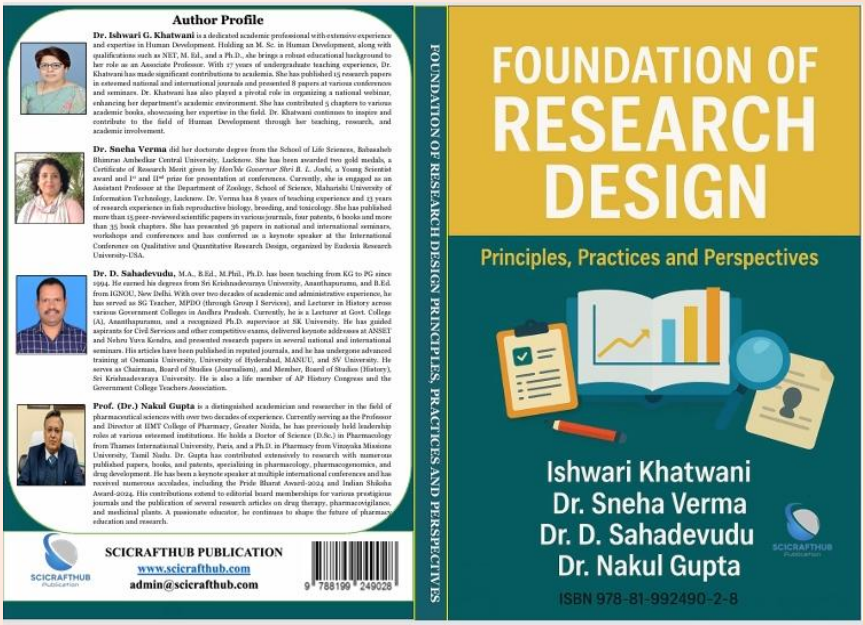
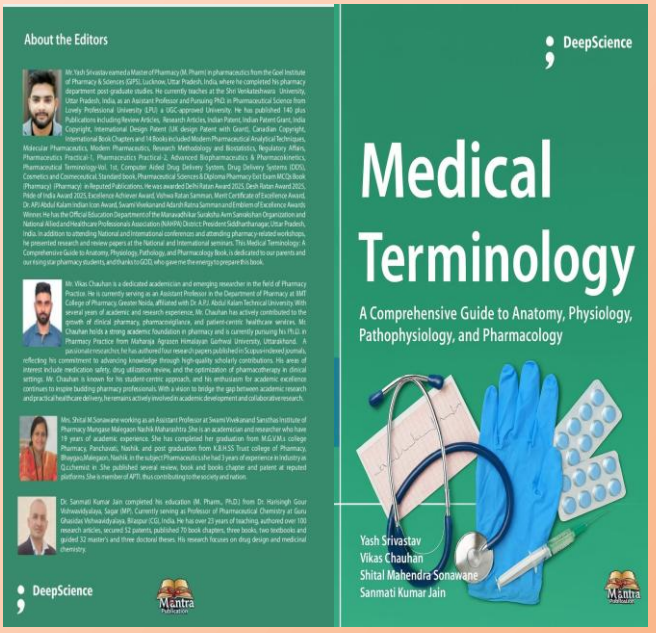
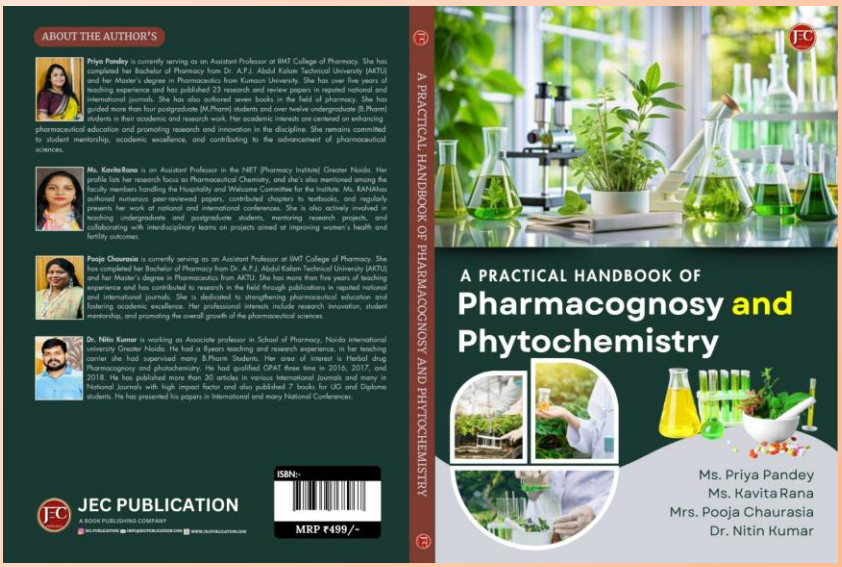
DOI: 10.2174/0113816128409580250812000816

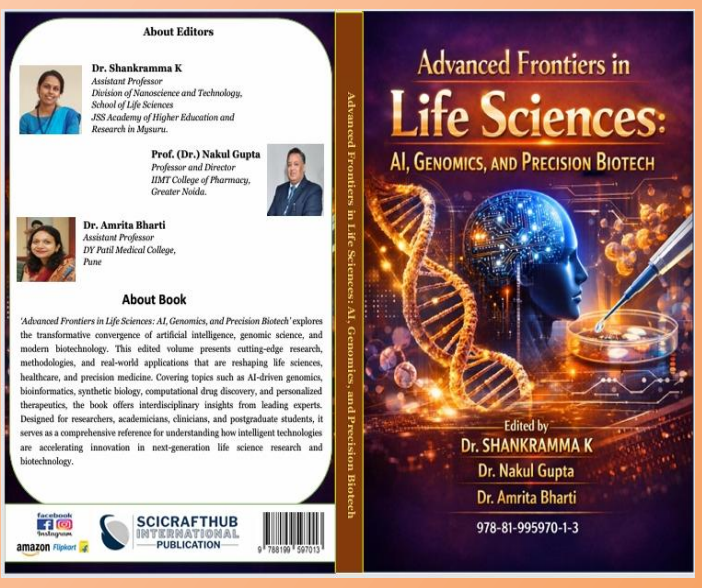
Price: $65

Faculties Book Publications









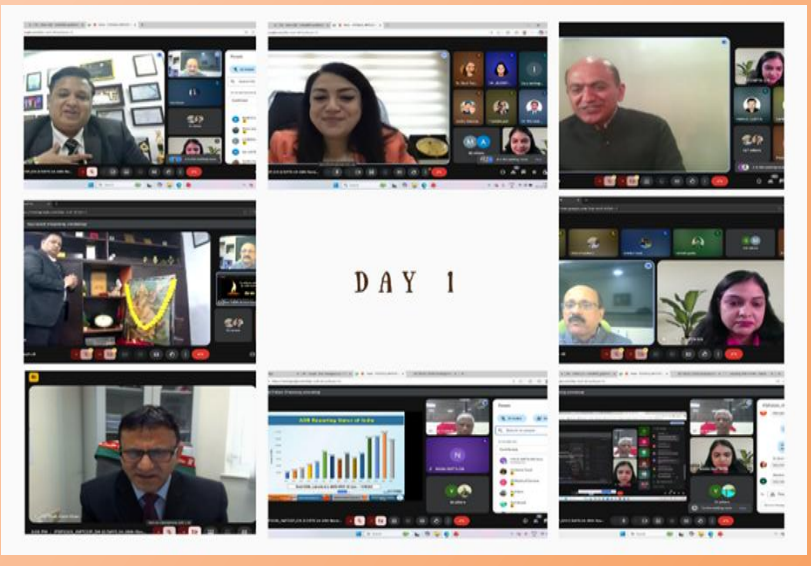
International Faculty Development Program

The five-day International Faculty Development Program (IFDP), held from 24th to 28th November 2025, was organized successfully and received an overwhelming response from the academic community. Focused on the theme "Integrating AI in Healthcare: Enhancing Education, Research, and Practice," the program offered meaningful insights into the rapidly advancing role of Artificial Intelligence in healthcare and pharmaceutical education.

The IFDP recorded participation from over 320 faculty members, representing more than 150 colleges and universities from across the country. Participants joined from 18 different states of India, highlighting the program's extensive national reach and its ability to bring together a diverse academic audience under a common learning platform.

The program was enriched by the presence of renowned national and international speakers from industry, academia, and government organizations. Their expert sessions, case-based discussions, and knowledge-sharing initiatives significantly enhanced the academic value of the program and promoted interdisciplinary learning.

The remarkable participation, diversity, and level of engagement throughout the five days reflect the strong academic impact of the IFDP. The program successfully contributed to the professional growth of participants and reinforced the institution's commitment to innovation, research excellence, and global academic engagement.



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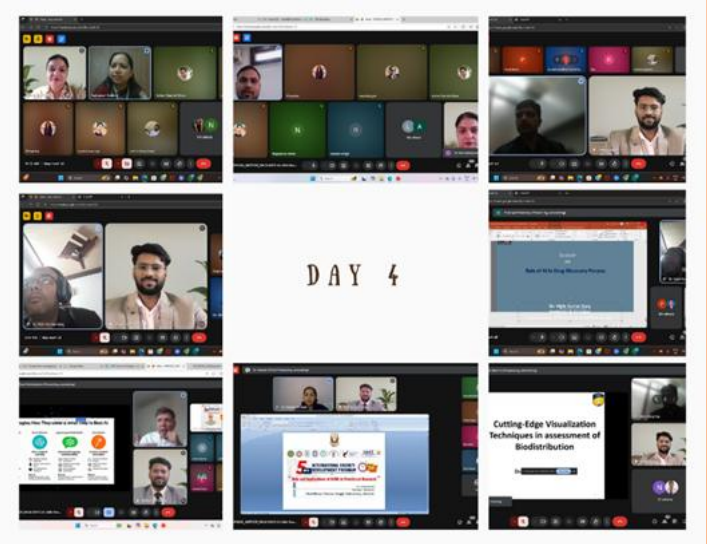
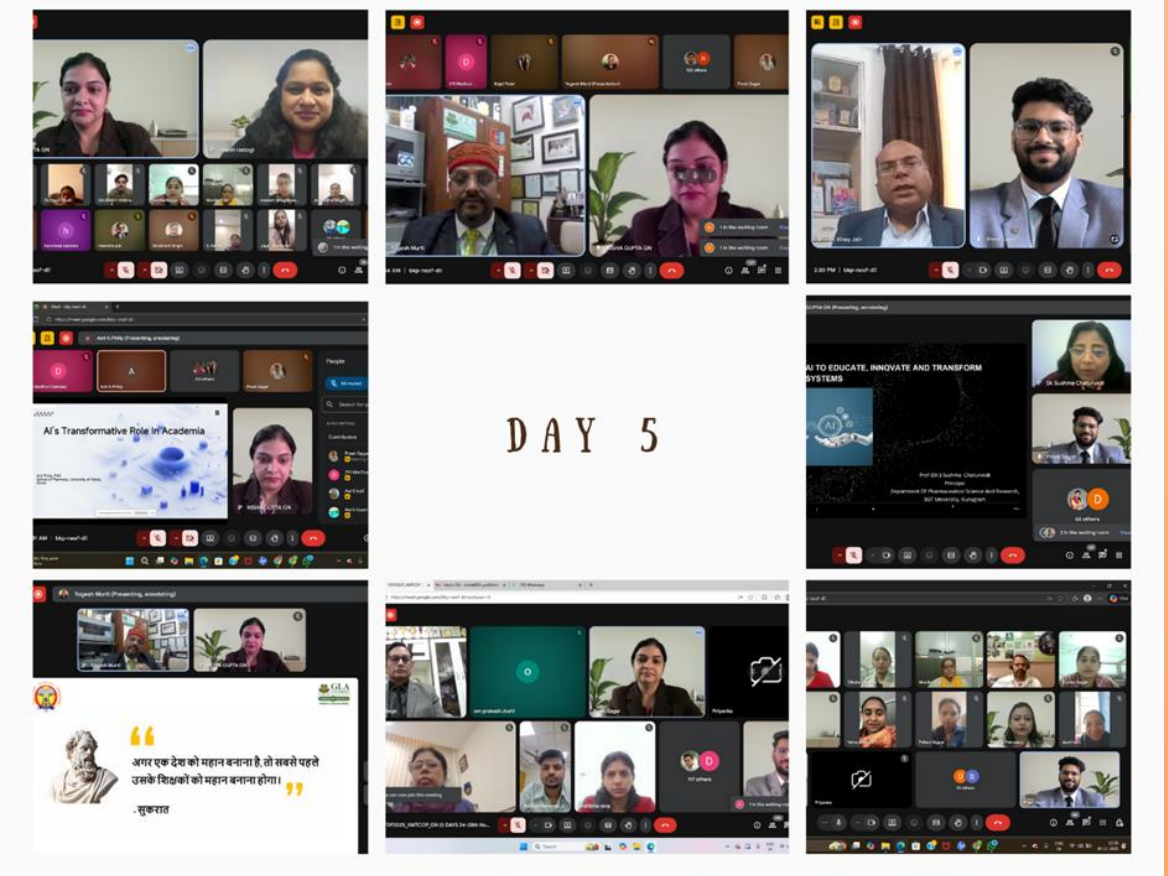
International Faculty Development Program Highlights





Faculty Development Programme

Faculty Innovation

At our college, innovation meets tradition through the inspiring efforts of a dedicated faculty member who has successfully transformed amla (Indian gooseberry) into value-added herbal products such as amla jam, chawanprash, and amla candy. This initiative reflects a perfect blend of academic knowledge, practical skill, and indigenous wisdom. Rich in vitamin C and antioxidants, amla is widely known for its immunity-boosting and health-promoting properties, and these products showcase its therapeutic potential in a palatable and accessible form. The preparation process follows hygienic, standardized methods within the college premises, ensuring both quality and safety.

Beyond product development, this activity serves as a live learning platform for students, especially from pharmacy, agriculture, and life-science streams, encouraging hands-on exposure to herbal formulation, processing, and entrepreneurship. This commendable effort not only promotes traditional Indian nutraceuticals but also instills innovation, sustainability, and self-reliance among students making it a proud achievement for the institution.

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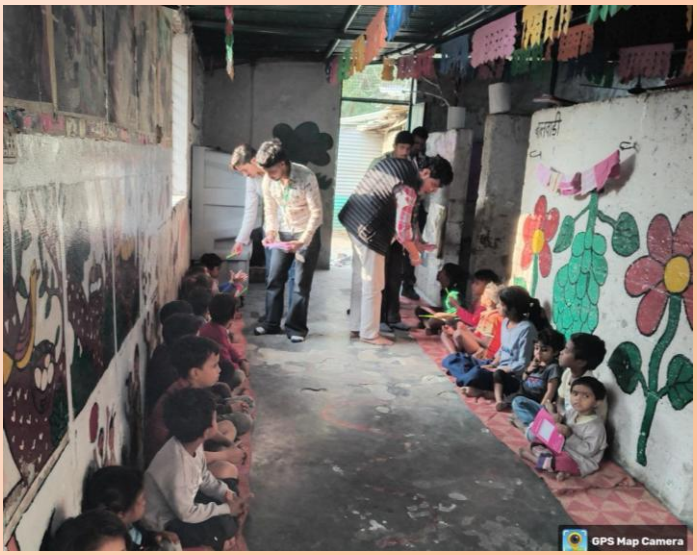
NSS Club Stationary Distribution



NSS CLUB
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NSS CLUB
COMMUNITY SERVICE
IIMT COLLEGE OF PHARMACY

Faculties FDP Certificates

SHARDA UNIVERSITY
AGRA

Certificate of Participation

This is to certify that

Mrs.Sheetal Soni

from **IIMT College of Pharmacy, Greater Noida**

has successfully completed the **5-Day Faculty Development Programme (Hybrid Mode)**

on **"Future-Ready Pharmacists: AI, Digital Learning, and NEP 2020 Perspectives"**

organized by

Sharda School of Pharmacy, Sharda University Agra

in collaboration with

Indian Pharmacy Graduates' Association (IPGA)

from 29th November to 3rd December, 2025.

Organizing Secretary
Mr. Vikash Sharma
Assistant Professor, SSP
Sharda University Agra

Convenor
Prof. (Dr.) Gyanendra Kumar Sharma
Officiating Dean, SSP
Sharda University Agra
Joint Secretary IPGA, Uttar Pradesh

Prof. (Dr.) Jayanthi Ranjan
Vice Chancellor
Sharda University Agra

S.No.: IIMT/IFDP/2025/ 053

INSTITUTION'S INNOVATION COUNCIL | IIMT COLLEGE OF PHARMACY Greater Noida — Aim For Excellence —

CERTIFICATE OF COMPLETION

This certificate is Presented to

SHRUTI SRIVASTAV

For completing **30 hrs INTERNATIONAL FACULTY DEVELOPMENT PROGRAM**

on **"Integrating AI in Healthcare: Enhancing Education, Research and Practice"**

Organized by **IIMT College of Pharmacy, Greater Noida from 24/11/2025 to 28/11/2025**

Prof. (Dr.) Harshit Sinha
Deputy Director General
IIMT Group of Colleges

Prof. (Dr.) Nakul Gupta
Director
IIMT College of Pharmacy

Faculties FDP Certificates

NAAC GRADE A+ Accredited University

NOIDA INTERNATIONAL UNIVERSITY

IETE

NIIMS MEDICAL COLLEGE & HOSPITAL

School of Engineering & Technology, Noida International University

In collaboration with IETE

organizes

International Conference on AI-Driven Innovation for Industry 4.0 to Society 5.0 (ICADIS 2025)

15th -16th October 2025

Certificate of Participation / Presentation to

Name of the Author: Priya Pandey

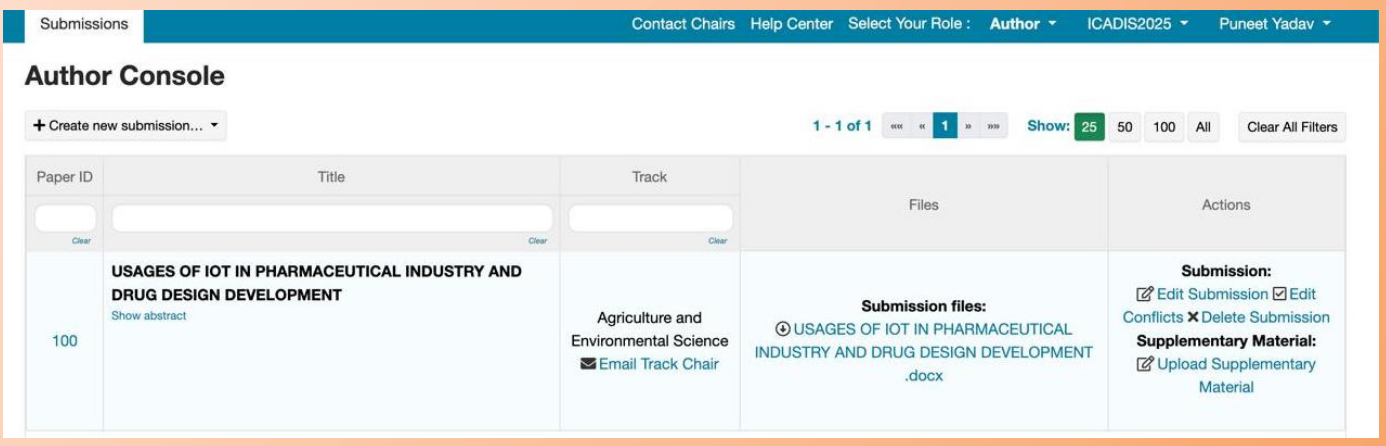
For Paper Title USAGES OF IOT IN PHARMACEUTICAL INDUSTRY AND DRUG DESIGN DEVELOPMENT

Prof. (Dr) Tanya Singh
Dean of Academics, NIU

Prof. G P Singh
Chairman, IETE Noida Center

Prof. (Dr) Uma Bhardwaj
Vice-Chancellor, NIU

Dr Vikram Singh
Chancellor, NIU



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Paper ID	Title	Track	Files	Actions
100	**USAGES OF IOT IN PHARMACEUTICAL INDUSTRY AND DRUG DESIGN DEVELOPMENT** Show abstract	Agriculture and Environmental Science Email Track Chair	**Submission files:** USAGES OF IOT IN PHARMACEUTICAL INDUSTRY AND DRUG DESIGN DEVELOPMENT .docx	**Submission:** Edit Submission Edit Conflicts Delete Submission **Supplementary Material:** Upload Supplementary Material

Faculties Certificates

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Ladder Of Success

IBM IBM Business Analytics Lab

Award of Recognition

Presented to

Dr. Pushpendra Kumar Jain
Dean, IIMT College of Pharmacy,
Greater Noida. Uttar Pradesh

as

Resource Person

during

International Conference
on
Embracing
AI
In Pharma World

Theme:
Redefining Education, Research & Industry
through Intelligent Innovation

at

LLOYD, Greater Noida
Saturday, 15th November, 2025

CHIEF PATRON
Manohar Thairani
President
Lloyd Group of Institutions

PATRON
Prof. Vandana Arora Sethi
Chief Strategy Officer & Head of Growth
Lloyd Group of Institutions

Faculties Patents

Product Patent application bibliographic record: Application No. 202511069140, filing date: 20/07/2025; Applicants: Anmol Kanda; Vishnu Prabhakar; Archna Singh; title: “Novel herbal formulation for the management of Alzheimer’s disease in Swiss albino mice”; field: Bio-chemistry.

Granted Patents

Certificate of Registration of Design: WEARABLE IOT MEDICAL MONITORING DEVICE (Design No. 456951-001; Class 14-02). Applicants: Ankita Chourasia; Nakul Gupta; Vaibhav Soni; Jagdish Pimple; Rakesh Kumar Yadav; Anita Venaik; Sachin Bhardwaj; Rahul Singh; Aditi Vishnoi; Himani Grewal; Avinash Saxena; Smrita Jain.

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

Application Details	
APPLICATION NUMBER	202511069140
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/07/2025
APPLICANT NAME	1 . Anmol Kanda 2 . Vishnu Prabhakar 3 . Archna Singh
TITLE OF INVENTION	NOVEL HERBAL FORMULATION FOR THE MANAGEMENT OF ALZHEIMER’S DISEASE IN SWISS ALBINO MICE.
FIELD OF INVENTION	BIO-CHEMISTRY

ORIGINAL

पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 456951-001

तारीख / Date : 28/04/2025

परस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में अंकित डिजाइन जो *WEARABLE IOT MEDICAL MONITORING DEVICE* से संबंधित है, का पंजीकरण, वर्ग 14-02 में 1.Ankita Chourasia 2. Prof. (Dr.) Nakul Gupta 3.Vaibhav Soni 4.Prof. Jagdish Pimple 5.Dr. Rakesh Kumar Yadav 6.Dr. Anita Venaik 7.Dr. Sachin Bhardwaj 8.Dr. Rahul Singh 9.Ms. Aditi Vishnoi 10.Dr. Himani Grewal 11.Mr. Avinash Saxena 12.Dr. Smrita Jain के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to *WEARABLE IOT MEDICAL MONITORING DEVICE* in the name of 1.Ankita Chourasia 2. Prof. (Dr.) Nakul Gupta 3.Vaibhav Soni 4.Prof. Jagdish Pimple 5.Dr. Rakesh Kumar Yadav 6.Dr. Anita Venaik 7.Dr. Sachin Bhardwaj 8.Dr. Rahul Singh 9.Ms. Aditi Vishnoi 10.Dr. Himani Grewal 11.Mr. Avinash Saxena 12.Dr. Smrita Jain.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रवर्तनों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Date of Issue : 28/08/2025

Controller General of Patents, Designs and Trade Marks

*The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

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INNOVATION CLUB

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About College

The IIMT College of Pharmacy was established in 2006 under the IIMT group of colleges, and it has an incredible reputation for providing high-quality educational services to diploma, graduate, and postgraduate students in the Delhi NCR region. Numerous talented students who have passed out from the institution have proved to be a boon for the healthcare and pharmaceutical sectors.

Medicine is not only a science; it is also an art. It does not consist of compounding pills and plasters; it deals with the very processes of life, which must be understood before they may be guided.

-Paracelsus-

Programmes Offered

D.PHARMA | B.PHARMA | M.PHARMA | D.PHARMA | B.PHARMA | M.PHARMA

"Bheshaja" (भेषज) is a profound word from Sanskrit that translates to "medicine," "a remedy," or "a cure."

Exclusively for the IIMT Community

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